

### **Listing of Claims:**

Claims 1-27(Cancelled).

28. (New) A process for producing a tiacumicin comprises:

culturing a microorganism in a nutrient medium to accumulate the tiacumicin in the nutrient medium; and

isolating the tiacumicin from the nutrient medium;

wherein the nutrient medium comprises an absorbent capable of absorbing the tiacumicin.

29. (New) The process of claim 28 wherein the tiacumicin is tiacumicin B.

30. (New) The process of claim 28 wherein the nutrient medium comprises 0.5-15% of the absorbent by weight.

31. (New) The process of claim 28 wherein the absorbent is an adsorbent resin.

32. (New) The process of claim 31 wherein the adsorbent resin is selected from the group consisting Amberlite® XAD16, XAD16HP, XAD2, XAD7HP, XAD1180, XAD1600, IRC50, Duolite® XAD761 and a reverse phase silica gel.

33. (New) The process of claim 28 wherein the microorganism is *Dactylosporangium aurantiacum* subspecies *hamdenensis* NRRL 18085.

34. (New) The process of claim 28 wherein the isolating step is conducted by at least one of following methods: 1) sieving and removing undesired material by eluting with at least one solvent or a solvent mixture; 2) extraction with at least one solvent or a solvent mixture; 3) crystallization; 4) chromatographic separation; 5) High-Performance Liquid Chromatography (HPLC); 6) MPLC; 7) trituration; and 8) extraction with saturated brine with at least one solvent or a solvent mixture.

35. (New) The process of claim 28 wherein the culturing step is conducted at a temperature from about 25 to about 35°C and at a pH from about 6 to about 8.
36. (New) The process of claim 28 wherein the nutrient medium comprises one or more carbon sources selected from the group consisting of glucose, sucrose, starch, molasses, dextrans, whey, glycerol, lipids, and corn meal.
37. (New) The process of claim 28 wherein the nutrient medium is fed with an additional carbon source as needed.
38. (New) The process of claim 28 wherein the nutrient medium comprises one or more inorganic salts selected from the group consisting of  $K_2HPO_4$ ,  $MgSO_4 \cdot 7H_2O$ , and  $CaCO_3$ .
39. (New) The process of claim 28 wherein the nutrient medium comprises one or more nitrogen/organic sources selected from the group consisting of beef extract, soybean meal, whole yeast, yeast extract, soybean flour, peptone, casamino acid, fish powder, corn steep liquor, ammonium salts, casein, and amino acids.
40. (New) The process of claim 32 wherein the reverse phase silica gel is selected from the group consisting of KP-C18, KP-C18-WP and KP-C18HS.